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Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

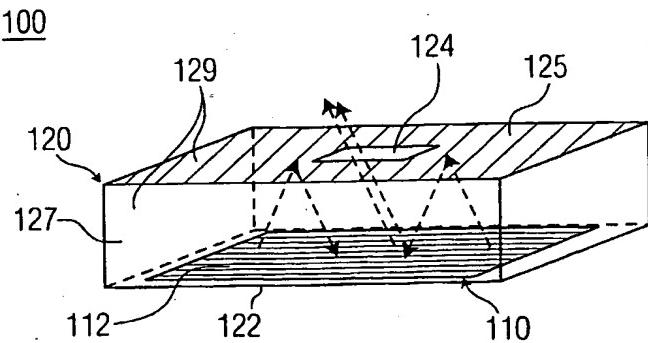
— as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations

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(54) Title: HIGH BRIGHTNESS ILLUMINATION DEVICE WITH INCOHERENT SOLID STATE LIGHT SOURCE



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(57) Abstract: An illumination light source includes an incoherent solid state light source adapted to emit light over at least one light emission surface (212) and having a total light emission surface area  $S_0$ ; a light circulation device (220) including at least one light receiving surface (222) adapted to receive the light from the incoherent solid state light source, and a light extraction area (224) having a first surface area  $S_1$ ; and a light extraction device (230) for extracting the light from the light circulation device at the light extraction area, wherein  $S_1 < S_0$ . Accordingly, the apparent brightness of the light is increased by distributing it over a smaller area. Embodiments involving light emitting diodes (LED) are described.

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